

The benefits of routine data collection in community health work

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Overview

Research Question	In the context of community health worker programmes, should practicing CHWs collect, collate, and use health data versus not?
Method	A Systematic Review (of studies using any study design)
Commissioned by	The World Health Organization
Purpose	Guideline Development: <i>Health policy and system support to optimise community health worker programmes</i>
Context	Collection of 15 CHW programme SRs
Partner Organisations	University of Melbourne (Prof Aron Shlonsky); Newcastle (A/P Luke Wolfenden); Sydney (Katie Conte); Adelaide (Dr Zohra Lassi); Toronto (Prof Peter Newman); Aga Khan University (Dr Jai K. Das)

Scope 1: CHWs

➤ carry out population-based, health-related activities in their community

➤ in a community they are directly connected to (they live in the community; are accountable to the community)

➤ have received no or only basic formal training; this training may be recognised by health services or a certification authority, but it is not a part of a formal tertiary education programme or qualification (e.g., degree, diploma, title, certificate course).



➤ work in high, low and middle income settings

➤ work in underserved community setting

➤ work in general population settings

Scope 2: Data Collection

INCLUDED

- Data collection that is part of CHWs work routines
 - regular data collection,
 - regular data use
 - written, oral or electronic data reporting to peers, supervisors or others

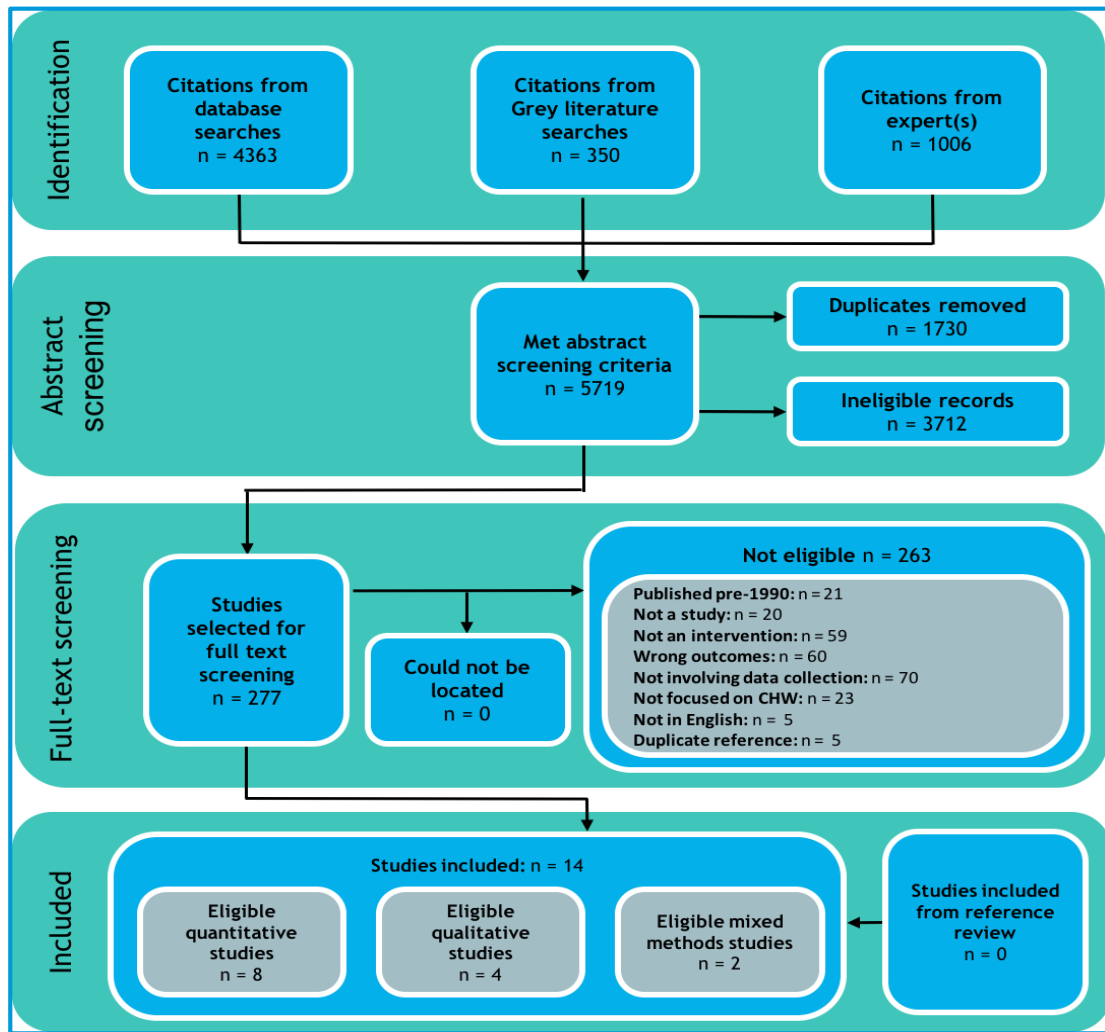
EXCLUDED

- Data collection that is part of research external to the routine activities of CHWs (e.g. led by research institutions that involve CHWs in data collection for research)
- Data collection for purposes not related to the supervision / coaching of CHWs – e.g. studies assessing the quality of data collected by CHW for surveillance purposes

Findings 1

N = 14

- 8 quant (3 RCTs)
- 4 qual
- 2 mm



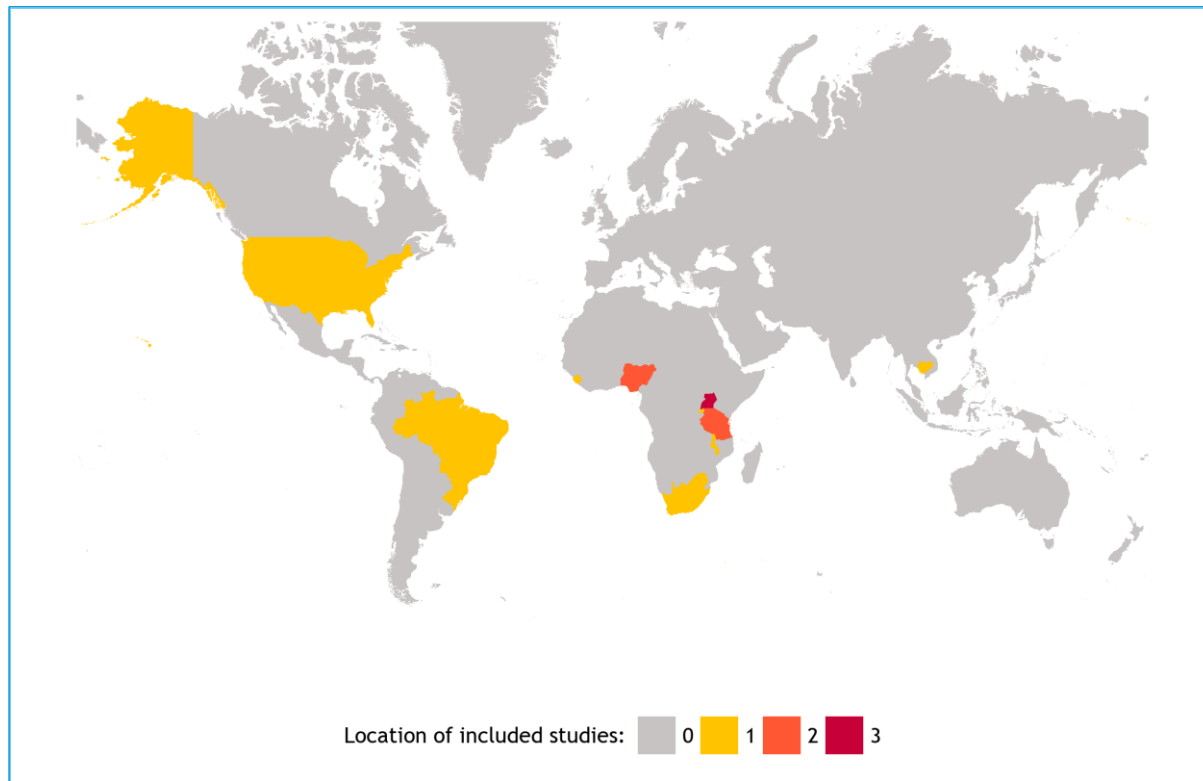
Findings 2

Geography

- African Region N=11
- Region of the Americas N=2

Diseases

- MCH
- Infectious
- Non-communicable



Findings 3

- Findings associated with data collection processes most often **outputs**:
 - *INDIRECT* = CHW motivation; satisfaction; knowledge; self-efficacy/esteem;
 - *DIRECT* = CHW absenteeism; service delivery (quantity / quality); changes in health system functioning; productivity
 - *DEVELOPMENTAL* = CHW attrition
- Only small indications of changes in **outcome**
 - Changes in health system functioning; community health (*CREDIBILITY*)
- Smallest indications that data collection may create **impact** (mortality, morbidity)
- Strong and enthusiastic presence of *mHealth* applications
- Little information on how data collection processes were integrated into supervision, coaching etc aimed at supporting CHWs

Conclusion

- Weak evidence base – need to expand and strengthen it
- Data collection – changes in outcomes: Thus far, an association only
- Applicability of findings in other contexts may be limited
 - *Majority of studies conducted in Africa*
 - *CMH / infectious diseases focus - non-communicable diseases, mental and behavioural disorders lacking*
- Great hopes for mHealth – which needs to be examined further

References

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Thank you

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